

## Abstract

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3 The invention is based on a heat exchanger (10) between a cooling circuit and  
4 an exhaust-gas line of an internal combustion engine that comprises a coolant  
5 inflow (26) and a coolant return (28) for coolant ducts (14), as well as an exhaust-  
6 gas inlet (30) and an exhaust-gas outlet (32) for exhaust-air ducts (36).

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8 It is proposed that it is arranged in a main exhaust-gas flow (34), and that a  
9 ~~shutoff~~ device is provided in the coolant inflow (26).

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## Reference Symbols

10	Heat exchanger	54	Line
12	Control unit	56	Bypass line
14	Coolant duct	58	Shutoff device
16	Gas reservoir	60	Signal line
18	Connecting line		
20	Shutoff device		
22	Actuator		
24	High point		
26	Coolant inflow		
28	Coolant return		
30	Exhaust-gas inlet		
32	Exhaust-gas outlet		
34	Main exhaust-gas flow		
36	Exhaust-gas duct		
38	Arrow		
40	Arrow		
42	Signal line		
44	Signal line		
46	Interior space		
48	Face		
50	Face		
52	Line		